ELSEVIER

Journal of Organometallic Chemistry 657 (2002) 289–290

Journal of Organometallic Chemistry

www.elsevier.com/locate/jorganchem

Contents of Volume 657

Editorial
M. Vaultier . . . 1

Recent developments in the chemistry of the nine-vertex monocarbaboranes
B. Štíbr, B. Wrackmeyer . . . 3

Imide- and amide-supported Group 5 and 6 metallacarboranes
A.K. Hughes . . . 9

The use of Kitaigorodskii's *Aufbau* principle in the solid-state study of crystalline borane compounds. A preliminary account
C. O'Dowd, J.D. Kennedy, M. Thornton-Pett . . . 20

Chemistry on a metallathiaborane cluster Part 4: reactions of 11-vertex rhodathiaboranes with bidentate phosphines and their subsequent rearrangements
O. Volkov, R. Macias, N.P. Rath, L. Barton . . . 40

Molecular construction based on icosahedral carboranes and aromatic *N,N'*-dimethylurea groups. Aromatic layered molecules and a transition metal complex
Y. Endo, C. Songkram, R. Yamasaki, A. Tanatani, H. Kagechika, K. Takaishi, K. Yamaguchi . . . 48

Functionalized cobalt bis(dicarbollide) ions as selective extraction reagents for removal of M^{2+} and M^{3+} cations from nuclear waste, crystal and molecular structures of the $[8,8'\text{-}\mu\text{-}ClP(O)(O)_2<(1,2\text{-}C_2B_9H_{10})_2\text{-}3,3'\text{-}Co]HN(C_2H_5)_3$ and $[8,8'\text{-}\mu\text{-}Et_2NP(O)(O)_2<(1,2\text{-}C_2B_9H_{10})_2\text{-}3,3'\text{-}Co](HN(CH_3)_3)$
J. Plešek, B. Grüner, I. Císařová, J. Báča, P. Selucký, J. Rais . . . 59

Synthesis and structure of 2,4,6-tris[tris(dimethylamino)silylamino]borazine: $\{[(CH_3)_2N]_3SiNH\}_3B_3N_3H_3$
F. Cheng, B. Toury, S.J. Archibald, J.S. Bradley . . . 71

High resolution solid state NMR investigation of various boron nitride preceramic polymers
C. Gervais, F. Babonneau . . . 75

Synthesis of $[B_{12}H_{12}]^{2-}$ based extractants and their application for the treatment of nuclear wastes
R. Bernard, D. Cornu, B. Grüner, J.-F. Dozol, P. Miele, B. Bonnetot . . . 83

Pyrolysis of poly[2,4,6-tri(methylamino)borazine] and its conversion into BN fibers
S. Bernard, D. Cornu, P. Miele, H. Vincent, J. Bouix . . . 91

Porous boron nitride supports obtained from molecular precursors. Influence of the precursor formulation and of the thermal treatment on the properties of the BN ceramic
J.A. Perdigon-Melon, A. Auroux, D. Cornu, P. Miele, B. Toury, B. Bonnetot . . . 98

Boron nitride thin fibres obtained from a new copolymer borazine–tri(methylamino)borazine precursor
C. Duriez, E. Framery, B. Toury, P. Toutois, P. Miele, M. Vaultier, B. Bonnetot . . . 107

Synthesis and structure of rhodium complexes with monoanionic carborane ligand $[9\text{-}SMe_2\text{-}7,8\text{-}C_2B_9H_{10}]^-$
A.R. Kudinov, D.S. Perekalin, P.V. Petrovskii, K.A. Lyssenko, G.V. Grintselev-Knyazev, Z.A. Starikova . . . 115

Allylboration of functionalized isoquinolines
F.V. Pastukhov, I.V. Yampolsky, Y.N. Bubnov . . . 123

Syntheses with organoboranes. XIII. Synthesis of ω-(4-bromophenyl)alkanoic acids and their borylation
M. Zaidlewicz, A. Wolan . . . 129

Chiral boronates—versatile reagents in asymmetric synthesis
S. Thormeier, B. Carboni, D.E. Kaufmann . . . 136

Elsevier Science B.V.
PII: S0022-328X(02)01756-4

Reactivity of some poly-1-alkynylsilicon and -tin compounds towards triallylborane—routes to novel heterocycles
B. Wrackmeyer, M.H. Bhatti, S. Ali, O.L. Tok, Y.N. Bubnov 146

Dihydrogen bonding of decahydro-*closo*-decaborate(2−) and dodecahydro-*closo*-dodecaborate(2−) anions with proton donors: experimental and theoretical investigation
E.S. Shubina, E.V. Bakhmutova, A.M. Filin, I.B. Sivaev, L.N. Teplitskaya, A.L. Chistyakov, I.V. Stankevich, V.I. Bakhmutov, V.I. Bregadze, L.M. Epstein 155

Synthesis and derivatization of the 2-amino-*closo*-decaborate anion $[2\text{-}B_{10}H_9NH_3]^-$
I.B. Sivaev, N.A. Votinova, V.I. Bragin, Z.A. Starikova, L.V. Goeva, V.I. Bregadze, S. Sjöberg 163

Polysubstituted derivatives of 3-(η^5-Cp)-4-SMe_2-3,1,2-$FeC_2B_9H_{10}$. X-ray structure of 3-(η^5-Cp)-4-SMe_2-7,8-$(CF_3COO)_2$-12-HgCl-3,1,2-$FeC_2B_9H_7$
V.I. Bregadze, I.A. Lobanova, S.V. Timofeev, A.R. Kudinov, V.I. Meshcheryakov, O.L. Tok, P.V. Petrovskii, Z.A. Starikova 171

Polyhedral monocarbaborane chemistry: The C,B-*para*-diphenyl monocarbadodecaborane anion $[1,12\text{-}Ph_2\text{-}closo\text{-}1\text{-}CB_{11}H_{10}]^-$
A. Franken, C.A. Kilner, M. Thornton-Pett, J.D. Kennedy 176

Polyhedral monocarbaborane chemistry: The *closo*-$[PhCB_7H_7]^-$ and *closo*-$[PhCB_{10}H_{10}]^-$ anions: the two missing species in the *closo*-$[PhCB_nH_n]^-$ sequence
A. Franken, C.A. Kilner, M. Thornton-Pett, J.D. Kennedy 180

Pd(II) bromide complexes of 1,2-bis(diphenylphosphino)-1,2-dicarba-*closo*-dodecaborane. Crystal structures of $[PdBr_2(1,2\text{-}(PPh_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10})]\cdot CH_2Cl_2$, $[PdBr_{1.133}Cl_{0.867}(1,2\text{-}(PPh_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10})]\cdot CH_2Cl_2$ and $[PdBrCl_{0.541}Me_{0.459}(1,2\text{-}(PPh_2)_2\text{-}1,2\text{-}C_2B_{10}H_{10})]\cdot CHCl_3$
S. Paavola, F. Teixidor, C. Viñas, R. Kivekäs 187

X-ray analysis and structural characterization of 2-phenyl-6-aza-1,3-dioxa-2-borabenzocyclononenones
H.I. Beltrán, L.S. Zamudio-Rivera, T. Mancilla, R. Santillan, N. Farfán 194

Azanonaborane-pyridine derivatives $[(R'C_5H_4N)B_8H_{11}NHR'']$: synthesis, structure and some molecular-orbital calculations
C. Bauer, D. Gabel, T. Borrmann, J.D. Kennedy, C.A. Kilner, M. Thornton-Pett, U. Dörfler 205

Retention of the B(3)–X (X = Br, I) bond in *closo*-*o*-carborane derivatives after nucleophilic attack. The first synthesis of [3-X-7-R-7,8-*nido*-$C_2B_9H_{10}]^-$ (X = Br, I). Crystal structure of $[HNMe_3][3\text{-}I\text{-}7,8\text{-}nido\text{-}C_2B_9H_{11}]$
G. Barberà, C. Viñas, F. Teixidor, A.J. Welch, G.M. Rosair 217

Phosphine–boranes incorporating the carborane cluster
R. Núñez, C. Viñas, F. Teixidor, R. Sillanpää, R. Kivekäs 224

Modulation of the C–C distance in disubstituted 1,2-R_2-*o*-carboranes. Crystal structure of *closo* 1,2-$(SPh)_2$-1,2-$C_2B_{10}H_{10}$
J. Llop, C. Viñas, J.M. Oliva, F. Teixidor, M.A. Flores, R. Kivekas, R. Sillanpää 232

Cobaltabisdicarbollide anion $[Co(C_2B_9H_{11})_2]^-$ as doping agent on intelligent membranes for ion capture
C. Masalles, F. Teixidor, S. Borrós, C. Viñas 239

Recent studies on RR'S·$C_2B_9H_{11}$ charge-compensated ligands: Crystal structures of 10-$(S(CH_3)_2)$-7,8-$C_2B_9H_{11}$ and 10-$(S(CH_2)_4)$-7,8-$C_2B_9H_{11}$
O. Tutusaus, F. Teixidor, R. Núñez, C. Viñas, R. Sillanpää, R. Kivekäs 247

Macropolyhedral boron-containing cluster chemistry: Models for intermediates en route to globular and discoidal megaloborane assemblies. Structures of $[nido\text{-}B_{10}H_{12}(nido\text{-}B_5H_8)_2]$ and $[(CH_2CH_2C_5H_4N)\text{-}arachno\text{-}B_{10}H_{10}(NC_5H_4\text{-}closo\text{-}C_2B_{10}H_{10})]$ as determined by synchrotron X-ray diffraction analysis
J. Bould, M.G.S. Londesborough, D.L. Ormsby, J.A. Hugh MacBride, K. Wade, C.A. Kilner, W. Clegg, S.J. Teat, M. Thornton-Pett, R. Greatrex, J.D. Kennedy 256

Macropolyhedral boron-containing cluster chemistry: A novel triple-cluster structural motif. Isolation and characterisation of contiguous twenty-vertex $[(PPh_3)_4ClPd_4B_{16}H_{17}(PPh_3)_2]$
M.G.S. Londesborough, C.A. Kilner, M. Thornton-Pett, J.D. Kennedy 262

Palladium-catalyzed cross-coupling reactions of arylboronic acids and 2-I-*p*-carborane
L. Eriksson, I.P. Beletskaya, V.I. Bregadze, I.B. Sivaev, S. Sjöberg 267

Macropolyhedral thiaboranes with unusual *arachno* subclusters—a computational investigation
M. Hofmann, S.K. Goll 273

Erratum 279
Author Index of Volume 657 281
Subject Index of Volume 657 283
Contents of Volume 657 289